## IN THE CLAIMS

A detailed listing of all claims is provided below, with a status identifier being further provided for each claim. Claim 29 is newly submitted. Claims 1-4, 14-17, 22, and 29 are pending. Favorable consideration is respectively requested.

1. (Original) A method for processing an extensible mark up language (XML) document comprising:

parsing the XML document into schema elements and data elements; converting the schema elements into data type definition (DTD) objects; validating the data elements using the DTD objects; and

if valid, constructing an in-memory tree representation of the XML document using the data elements.

2. (Original) The method of claim 1, wherein the converting comprises:

calling a method in a first application program interface (API); and as a result of calling the first method, calling one or more methods in a second API to construct the DTD objects.

- 3. (Original) The method of claim 1, wherein the converting comprises referencing one or more tables that define the schema elements and associated functions for processing the schema elements.
- 4. (Original) A computer-readable medium having computer-executable instruction, which when executed by a computer, performs the method of claim 1.



## Claims 5 – 13: Canceled

14. (Original) An architecture for processing an extensible mark up language (XML) document comprising:

a parser to parse the XML document into elements including schema elements and data elements;

a schema node factory, called by the parser, to handle calls to construct a node in an in-memory tree representation of the XML document for the elements; and

a schema builder, called by the schema node factory, to construct data type definition (DTD) objects used in validating the data elements.

- 15. (Original) The architecture of claim 14, wherein the schema builder utilizes one or more tables to process the elements, the tables containing information defining a schema for the XML data.
- 16. (Original) A computer implemented with the architecture of claim 14.
  - 17. (Original) A client-server system, comprising:

a server;

a client connectable to the server to exchange extensible mark up language (XML) documents;

at least one of the client and the server implementing the architecture of claim 14.

Claims 18 – 21: Canceled

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22. (Original) A system for processing an extensible mark up language (XML) document comprising:

means for parsing the XML document into schema elements and data elements;

means for converting the schema elements into data type definition (DTD) objects;

means for validating the data elements using the DTD objects; and if valid, means for constructing an in-memory tree representation of the XML document using the data elements.

Claims 23 – 28: Canceled

29. (New) The architecture of claim 14, further comprising a validation node factory to evaluate whether the data elements comply with constraints set forth in the DTD objects.